09505250 RED TANK DRAW NEAR RIMROCK, AZ

LOCATION.--Lat 34°41'43", long 111°42'49", in SE¹/₄NE¹/₄ sec.16, T.15 N., R.6 E., Yavapai County, Hydrologic Unit 15060202, in Coconino National Forest, on left bank 2.5 mi downstream from confluence of Rarick and Mullican Canyons, and 3.5 mi northeast of Rimrock.

DRAINAGE AREA.--49.4 mi².

PERIOD OF RECORD .-- April 1957 to Sept. 1978 (discontinued).

GAGE.--Water-stage recorder. Concrete control prior to Sept. 5, 1970. Altitude of gage is 3,920 ft, from topographic map. Prior to Sept. 5, 1970, at datum 0.29 ft higher.

REMARKS.--Records good except those for period of missing record, May 13 to June 13, which are poor.

AVERAGE DISCHARGE.--21 years, 7.24 ft³/s, 5,240 acre-ft/yr; median of yearly mean discharges, 4.6 ft³/s 3,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,500 ft³/s Sept. 5, 1970, recorded gage height, 12.69 ft, about 13.3 ft, from profile past gage, from rating curve extended above 1,100 ft³/s, on basis of slope-area measurement of peak flow; no flow for many days in each year.

Annual peak discharges

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1958	03-22-58	1,280		1969	01-25-69	1,650	
1959	02-17-59	113		1970	09-05-70	10,500	
1960	12-25-59	1,230		1971	10-03-70	12	
1961	03-31-61	457		1972	12-26-71	745	
1962	02-08-62	620		1973	10-19-72	2,720	
1963	03-22-63	12		1974	01-21-74	34	
1964	08-02-64	1,970		1975	04-13-75	407	
1965	04-04-65	1,440		1976	02-09-76	1,800	
1966	11-25-65	2,010		1977	04-06-77	16	
1967	12-07-66	425		1978	02-23-78	441	
1968	02-14-68	327					

Basin characteristics

						Rainfall inte	nsity, 24-hour
Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	2-year (in)	50-year (in)
183	19.3	5,910	23.0	3.0	21.6	2.4	4.8

09505250 RED TANK DRAW NEAR RIMROCK, AZ--Continued

MEAN	V.THT/YOM	AND	ANNITAT.	DISCHARGES	1958-78

MAGNITUDE AND PROBABILITY OF ANNUAL LOW FLOW BASED ON PERIOD OF RECORD 1959-78

				STAN-									
				DARD	COEFFI-	PERCENT			DISCHARG	E, IN FT	3/S, FOR	INDICAT	ED
				DEVIA-	CIENT OF	OF	PERIOD		RECURREN	CE INTER	VAL, IN	YEARS, A	ND
	MAXIMUM	MINIMUM	MEAN	TION	VARI-	ANNUAL	(CON-	N	ON-EXCEE	DANCE PR	OBABILIT	Y, IN PE	RCENT
MONTH	(FT3/S)	(FT3/S)	(FT3/S)	(FT3/S)	ATION	RUNOFF	SECU-						
							TIVE	2	5	10	20#	50#	100#
							DAYS)	50%	20%	10%	5%	2%	1%
OCTOBER	80	0.00	4.2	17	4.1	4.9							
NOVEMBER	41	0.00	4.4	12	2.6	5.1							
DECEMBER	104	0.00	10	25	2.4	11.8	1						
JANUARY	46	0.00	7.0	13	1.9	8.0	3						
FEBRUARY	79	0.00	16	23	1.4	18.5	7						
MARCH	161	0.02	27	42	1.6	31.0	14						
APRIL	110	0.00	14	30	2.2	16.0	30						
MAY	3.7	0.00	0.25	0.82	3.3	0.3	60						
JUNE	0.05	0.00	0.01	0.01	2.7	0.0	90						
JULY	1.5	0.00	0.07	0.32	4.6	0.1	120						
AUGUST	8.8	0.00	0.50	1.9	3.9	0.6	183	0.00	0.00	0.00	0.00	0.00	0.00
SEPTEMBER	62	0.00	3.4	14	4.0	3.8							
ANNUAL	37	0.04	7.2	9.1	1.3	100							

MAGNITUDE AND PROBABILITY OF ANNUAL HIGH FLOW BASED ON PERIOD OF RECORD 1958-78

MAGNITUDE	AND	PΕ	ROB	ABILITY	OF	INSTANT	CANEOUS	PEAK	FLOW	
	BASE	ΞD	ON	PERIOD	OF	RECORD	1958-78	3		

		., .,	INDICATED NCE PROBAB			Ь
2 50%			25 4%		100# 1%	
724	1,860	3,090	5,410	7,810	10,900	
MEAN		(LOGS) = (LOGS) =	2.87			

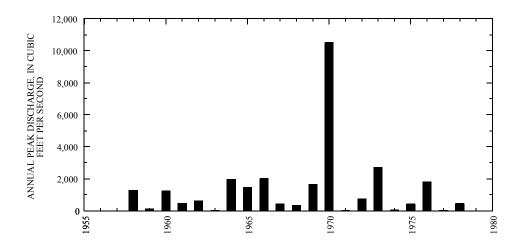
			GE, IN F	., .,		
PERIOD		RECURRE	NCE INTER	RVAL, IN	YEARS, A	AND
(CON-		EXCEEDA	NCE PROBA	ABILITY,	IN PERCE	ENT
SECU-						
TIVE	2	5	10	25#	50#	100#
DAYS)	50%	20%	10%	4%	2%	1%
1	208	755	1,310	2,170	2,880	3,620
3	129	424	691	1,060	1,330	1,590
7	75	247	400	606	755	894
15	45	151	247	378	474	564
30	26	96	164	267	349	430
60	16	61	109	184	248	314
90	12	46	82	140	189	240

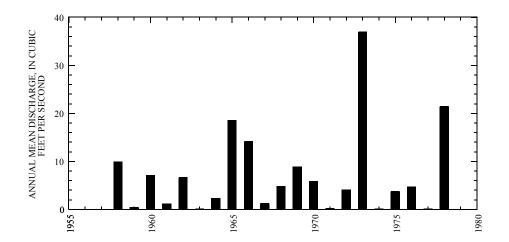
DURATION TABLE OF DAILY MEAN FLOW FOR PERIOD OF RECORD 1958-78

			DISCHA	ARGE, IN	FT3/S,	WHICH	WAS EQ	QUALED OR	EXCEED	ED FOR	INDICATE	D PER	CENT OF	TIME		
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
174	30	4.7	0.84	0.25	0.07	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

[#] Reliability of values in column is uncertain, and potential errors are large.

09505250 RED TANK DRAW NEAR RIMROCK, AZ--Continued





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